

BILL NO. S-89-11-30

SPECIAL ORDINANCE NO. S-205-89

AN ORDINANCE approving the awarding of Reference #887 by the City of Fort Wayne, Indiana, by and through its Department of Purchasing and EXIDE CORPORATION for the City Utilities Garage.

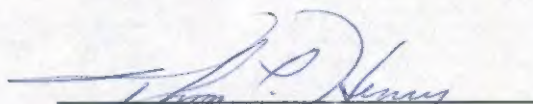
NOW, THEREFORE, BE IT ORDAINED BY THE COMMON COUNCIL OF THE CITY OF FORT WAYNE, INDIANA;

SECTION 1. That Reference #887 between the City of Fort Wayne, by and through its Department of Purchasing and EXIDE CORPORATION for the City Utilities Garage, respectfully for:

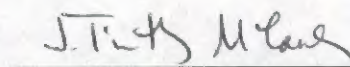
the purchase of batteries for the City Fleet through the City Utilities Garage;

involving a total cost of Seventeen Thousand and no/100+/- Dollars (\$17,000+/-), all as more particularly set forth in said Reference #887 which is on file in the Office of the Department of Purchasing, and is by reference incorporated herein, made a part hereof, and is hereby in all things ratified, confirmed and approved.

SECTION 2. That this Ordinance shall be in full force and effect from and after its passage and any and all necessary approval by the Mayor.

  
Councilmember

APPROVED AS TO FORM  
AND LEGALITY

  
J. Timothy McCaulay, City Attorney



REF. NO.: 887  
DEPT.: CU GARAGE  
DATE: 11/16/89  
ITEM/SERV.: BATTERIES

PURCHASING INFORMATION

ADVERTISED BID: YES  
DATES ADVERTISED: 10/5/89 & 10/12/89  
OPENING DATE: 10/26/89  
WRITTEN QUOTE:  
DUE DATE:  
VERBAL QUOTE:  
SINGLE SOURCE:  
NO. OF VENDORS NOTIFIED: 13  
NO. OF VENDORS RECEIVING BID: 8  
NO. OF VENDORS RETURNING BID: 7  
NO. OF VENDORS DISQUALIFIED: 0  
NO. OF VENDORS NOT RESPONDING: 6  
DATE SENT TO DEPT FOR RECOMM.: 10/30/89  
DATE RECOMMENDATION REC'D IN PURCH: 11/13/89  
COUNCIL INFORMATION DATES SENT  
DATE INFO SENT TO LAW DEPT.: 11/16/89  
INTRODUCTION DATE: 11/28/89  
DISCUSSION DATE: 12/5/89  
PASSAGE DATE: 12/12/89  
ORDINANCE NO.:  
AMOUNT APPROVED AND/OR SPENT  
LAST YEAR: (IF APPLICABLE)

REFERENCE NO. 887

BATTERIES

CU GARAGE

BATTERY	CROWN		AUTO & IND		TNT ELECT		ALLEN CO MTRS		EXIDE CORP		ASSOC TIRES		ANTHONY MOTORS
	UNIT	CCA'S	UNIT	CCA'S	UNIT	CCA'S	UNIT	CCA'S	UNIT	CCA'S	UNIT	CCA'S	
24F-70	\$38.60	650	\$49.61	650	N/B	N/B	\$41.42	575	\$38.36	650	\$45.29	525	NO BID
75-60	\$34.03	650	\$53.29	650	N/B	N/B	\$37.17	650	\$39.99	630	\$45.29	525	
27-70	\$43.92	700	\$56.35	700	N/B	N/B	\$41.42	660	\$42.77	700	\$45.29	580	
27F-70	\$43.92	700	\$56.35	700	N/B	N/B	\$41.42	660	\$42.77	700	\$45.29	580	
29NF-24	\$39.33	350	\$50.23	350	N/B	N/B	\$39.02	425	\$37.34	340	N/B	N/B	
58-60	\$35.33	600	\$43.46	600	\$42.37	540	\$37.17	540	\$33.98	575	\$44.17	525	
30H-24	\$50.44	700	\$60.64	700	N/B	N/B	N/B	N/B	\$46.43	725	N/B	N/B	
74-70	\$39.64	650	\$52.06	650	N/B	N/B	\$41.42	575	\$39.10	650	\$45.29	580	
24-70	\$38.60	650	\$49.61	650	N/B	N/B	\$41.42	575	\$38.36	650	\$45.29	525	
1-30	\$32.20	540	\$45.94	540	N/B	N/B	\$33.62	545	\$27.93	585	N/B	N/B	
31S-30	\$51.36	750	\$61.86	750	N/B	N/B	N/B	N/B	\$49.00	750	\$78.16	750	
8D-30	\$102.88	1200	\$123.73	1200	N/B	N/B	\$101.49	1155	\$90.48	1150	N/B	N/B	
27T-36	\$47.01	175	\$60.64	175	N/B	N/B	N/B	N/B	\$45.44	650	N/B	N/B	
4H-30	\$42.67	900	\$51.45	900	N/B	N/B	N/B	N/B	\$37.27	760	N/B	N/B	
4DL-30	\$78.34	750	\$96.78	750	N/B	N/B	\$92.48	815	\$71.49	750	N/B	N/B	
62-60	\$39.11	525	\$43.49	525	\$44.39	525	\$37.17	510	\$37.17	515	N/B	N/B	
31A-30	\$51.36	750	\$61.86	750	N/B	N/B	\$50.43	655	\$45.92	700	N/B	N/B	
4D-24	\$85.46	850	\$105.96	850	N/B	N/B	\$94.28	1000	\$79.76	975	N/B	N/B	
22F-50	\$29.95	425	\$36.14	425	\$35.28	400	N/B	N/B	\$27.13	450	\$40.12	385	
70-60	\$34.63	525	\$43.46	525	\$38.83	525	\$37.17	525	\$34.12	530	\$44.17	525	



FRONT PAGE/INVITATION TO BID  
DEPARTMENT OF PURCHASING  
CITY OF FORT WAYNE, ALLEN COUNTY, INDIANA  
ONE MAIN STREET - ROOM 350  
PHONE 219-427-1101

BID OPENING DATE OCTOBER 26, 1989 BID REFERENCE # 887

SEALED BIDS SHOULD BE DELIVERED TO DEPARTMENT OF PURCHASING, ROOM 350, CITY-COUNTY BUILDING UP TO 11:00 A.M. ON OR BEFORE OPENING DATE.

SEALED BIDS WILL BE OPENED PUBLICLY AT 11:01 A.M. IN THE BOARD OF WORKS & SAFETY CONFERENCE ROOM ON THE THIRD FLOOR OF THE CITY-COUNTY BUILDING. "NO LATE BIDS WILL BE ACCEPTED AFTER 11:00 A.M. FOR ANY REASON WHATSOEVER".

THIS INVITATION FOR BID IS FOR THE 1990 AUTO, TRUCK, TRACTOR AND CONSTRUCTION EQUIPMENT BATTERIES PER SPECIFICATIONS

AND REQUESTED BY CITY UTILITIES GARAGE

THIS BID REQUIRES A \$500.00 BID BOND, CERTIFIED OR CASHIER'S CHECK OF ALL BIDDERS.

THIS BID REQUIRES A \_\_\_\_\_ 100% PERFORMANCE BOND OF SUCCESSFUL BIDDER(S).

PROMPT PAYMENT DISCOUNTS WILL BE ALLOWED AS FOLLOWS: 2 %  
IF PAID WITHIN 10 DAYS.

THIS INVITATION IS ISSUED TO ESTABLISH A CONTRACT TO SUPPLY THE CITY OF FORT WAYNE WITH A COMMODITY OR SERVICE IN ACCORDANCE WITH ACCOMPANYING SPECIFICATIONS.

THE EXECUTION HEREOF BY THE BIDDER IS ACCEPTANCE OF ALL TERMS AND CONDITIONS HEREIN AND IN THAT REGARD THE BIDDER AGREES TO BE BOUND BY SAME AND BE BOUND TO THE AMOUNT OF HIS/HER BID FOR A PERIOD OF NINETY (90) DAYS.

FIRM NAME Exide Corporation

STREET ADDRESS 4024 Merchant Road,

CITY Fort Wayne PHONE # (219) 489-7816

BY David C. Cusack  
REPRESENTATIVE SIGNATURE

SPECIFICATIONS FOR 1990 AUTO, TRUCK,  
TRACTOR AND CONSTRUCTION EQUIPMENT BATTERIES

BIDDER SHALL INCLUDE THE COMPLETE BATTERY SPECIFICATION DATA SHEET, WHICH INCLUDES; BCI GROUP NO., VENDOR GROUP NO., WARRANTY, PLATES PER CELL, AMP RATING AND COLD CRANKING AMPS.

THE PRICE LISTING WOULD BE THAT LISTING SUCH AS "GSA PRICE LIST", OR THE EQUIVALENT. SHOULD THE VENDOR EXTEND ADDITIONAL PRICE LIST, THIS MUST ALSO BE INCLUDED.

BIDDER SHALL STATE IF THE BATTERIES ARE FILLED OR UNFILLED.

TRADE-INS ON BATTERIES MUST ALSO BE INCLUDED IN THE BID.

THIS BID SHALL BE VALID JANUARY 1, 1990 THRU DECEMBER 31, 1990.

BIDDER SHALL HAVE THE RIGHT TO INCREASE OR DECREASE, THE CONTRACT UNIT PRICE IN AN AMOUNT EQUAL TO ANY "CHANGES" IN THE ABOVE REFERENCED PRICE LISTS DURING THE PERIOD OF THIS CONTRACT. ANY INCREASE OR DECREASE IN COSTS RELATIVE TO THE PRICE LISTS ONLY, SHALL BE SUBMITTED TO THE CITY OF FORT WAYNE PURCHASING DEPARTMENT UPON RECEIPT BY BIDDER, AND WILL BECOME EFFECTIVE UPON VERIFICATION BY THE DIRECTOR OF PURCHASES.

BIDDERS MUST STATE DISCOUNT ABOVE THAT STATED ON PRICE LIST.



# **EXIDE CORPORATION**

CITY OF FORT WAYNE

Bid Reference: 887

Exide is pleased to submit the following bid proposal to the City of Fort Wayne:

**PRICING:** Attached is a special City of Fort Wayne price sheet. These prices are per unit.

**DELIVERY:** Exide will deliver to the City of Fort Wayne with Exide Branch delivery trucks. Exide will service the City weekly. Emergency service or pick-up is available on an "as Needed" Basis. Exide drivers will handle all warranties, obsoletes, defectives and rotations.

**TERMS:** All invoicing to the City of Fort Wayne, will be 2% 10th, Net 30.

**WARRANTY:** The city of Fort Wayne receives a pro-rata warranty, with the first 6 months free replacement. Replacement costs are based on net cost. Warranty starts upon installation of the battery.

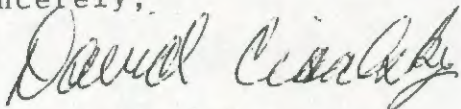
**SCRAP:** Exide will pick-up junks on a 1 for 1 exchange basis. See attached sheet for credit amount. These will be picked up on delivery of new batteries.

**EXTRAS:** All batteries will be delivered filled unless otherwise ordered.

Exide will supply the replacement books or necessary catalogs at no charge.

We welcome this opportunity to serve you and assure you of Exide's dedication to provide the City of Fort Wayne with the finest in product and service.

Sincerely,



David A. Ciralsky,  
Branch Manager

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## CITY OF FORT WAYNE

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TYPE	CCA'S	PLATES	PRICE	TYPE	CCA'S	PLATES	PRICE
<u>TRACTOR 12 VOLT</u>				6TH	500	23	\$93.24
F-16TF	640	15	\$82.92	<u>FLOOR SCRUBBER 6 VOLT</u>			
F-17TF	510	14	60.86	FS2	425 RES	19	66.09
F-20H	235	9	40.97	FS6	650 RES	15	89.93
F-3EE	340	11	36.63	FS8	575 RES	15	48.42
F-3ET	460	13	44.19	FS13	200 RES	30	85.64
F-4DLT	750	25	71.49	<u>MARINE DEEP CYCLE 12 VOLT</u>			
<u>TRACTOR 6 VOLT</u>				DC-24	435	11	39.07
F-2E	615	17	36.19	DC-27	500	13	44.07
F-3EH	830	25	43.62	<u>MARINE STARTING 12 VOLT</u>			
F-4EH	930	27	60.24	XHD-M-24	600	12	35.98
<u>GROUP 31 12 VOLT</u>				HD-M-24	500	10	29.85
COM-31-D	700	15	45.92	SD-M-24	400	8	27.67
COM-31-E	700	15	45.92	<u>MARINE 8 VOLT</u>			
HD-31-D	750	17	49.00	8-1	360	11	35.03
HD-31-E	750	17	49.00	8-2	430	15	41.98
HP-31-D	950	22	55.18	8VM-AD	202	23	115.20
HP-31-E	950	22	55.18	8VM-D	165	19	90.02
<u>HEAVY DUTY 12 VOLT</u>				8VM-6D	221	25	129.95
COM-30H-P	725	15	46.43	<u>LAWN AND GARDEN</u>			
COM-4D-P	975	25	79.76	GT-9L&R	235	9	19.95
COM-8D-P	1150	29	90.48	GT-9LM	235	9	20.95
<u>HEAVY DUTY 6 VOLT</u>				GT-7L	175	7	17.95
COM-1H-P	585	15	27.93	<u>GOLF CAR 6 VOLT</u>			
COM-2-P	650	15	32.96	GC-5	235	21	53.95
COM-3	660	20	38.49	GC-4	220	19	40.95
COM-5D	830	25	47.90	GC-3	190	17	38.95
COM-7D	950	27	53.97	<u>SPECIAL DEEP CYCLE 12 VOLT</u>			
T-4H-P	760	21	37.27	DC-22NF	280	9	35.83
T-4ECP	975	27	39.53	DC-9	225	9	27.76
<u>ORDNANCE</u>							
2HN	250	11	56.94				
4HN	75	14	80.29				



## CITY OF FORT WAYNE

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TYPE	CCA'S	PLATE'S	PRICE	TYPE	CCA'S	PLATE'S	PRICE
<u>DUAL TERMINAL</u>							
UBX-72	850	20	\$51.60	29NF-40	340	11	37.34
UB-72	650	16	44.81	34-60	530	12	34.17
UB-60	550	12	37.15	41-60	650	18	43.17
UB-50	450	10	32.11	42-50	410	11	33.14
				45-50	410	11	33.87
				46-50	500	11	35.48
				48-50	690	19	55.31
				49-60	740	21	60.80
<u>AUTOMOTIVE 12 VOLT</u>							
22F-50	450	10	27.13	53-40	250	9	36.24
22F-40	375	8	25.34				
22NF-40	350	10	28.50	55-60	535	13	34.12
24-72	900	20	49.34	55-50	450	11	30.16
24-72	650	15	38.36	58-60	575	13	33.98
24-60	540	11	31.48	58-50	450	11	28.56
24-50	460	9	26.52				
24-40	370	8	23.29	62-60	515	13	37.17
24F-72	900	20	49.34	64-60	630	15	41.89
24F-72	650	15	38.36	65-60	860	21	51.16
24F-60	540	11	31.48				
24F-50	460	9	26.52	70-72	650	15	40.92
24F-40	370	8	23.29	70-60	530	12	34.12
27-72	700	15	42.77	70-50	450	10	29.25
27-60	580	13	36.10	70-40	370	9	26.49
27-50	525	11	33.69				
27F-72	700	15	42.77	74-72	900	20	51.10
27F-60	600	13	36.10	74-72	650	15	39.10
27F-50	525	11	33.69	74-60	540	13	32.99
26-72	650	15	40.44	74-50	450	9	28.24
26-60	530	12	32.55	74-40	370	8	25.60
26-50	450	10	29.22	75-60	630	15	39.99
26-40	370	9	25.89				
26R-72	650	15	40.44	78-72	650	16	41.70
26R-60	530	12	32.55	78-60	630	15	39.89
26R-50	450	10	29.22				
26R-40	370	9	25.89				
				<u>LIGHT TRUCK &amp; VAN</u>			
				24-LT-60	600	13	39.38
				24F-LT-60	600	13	39.38
				27-LT-60	650	15	45.44
				27F-LT-60	650	15	45.44
				64-LT-60	600	16	47.52
				74-LT-60	600	13	40.87
				78-LT-60	650	16	48.11



TRADE IN ALLOWANCE - JUNK

Garden Tractor and Aircraft	\$ 0.50
SLI - 12 Volt & 6 Volt, Group 1 & 2	1.00
Group 3, 4, 3ET, 3EH, 3OH, 31, GC	1.00
4DLT, 16TF; 17TF, SD, 7D	1.50
4D	2.50
8D	3.00

one for one exchange





# BATTERY SPECIFICATIONS

Effective January, 1989

## PASSENGER CAR BATTERIES

### THE EXIDE UNIVERSAL EDGE™ DUAL TERMINAL BATTERY—12 VOLT

BCI GROUP SIZE	BATTERY TYPE	RESERVE CAPACITY (MINS) AT 80°F.	OVERALL DIMENSIONS (INCHES)			APPROXIMATE WEIGHT IN POUNDS		ELECTROLYTE QUARTS TO FILL	COVER/CASE COLOR	UNIT VALUE
			LENGTH	WIDTH	HEIGHT <sup>2</sup>	DRY	WET			
26/70	UB-72	85	8 <sup>5</sup> / <sub>32</sub>	6 <sup>13</sup> / <sub>16</sub>	8 <sup>1</sup> / <sub>16</sub>	—	36	—	BK/BK	1.0
	UB-60	85	8 <sup>5</sup> / <sub>32</sub>	6 <sup>13</sup> / <sub>16</sub>	8 <sup>1</sup> / <sub>16</sub>	—	37	—	BK/BK	1.0
	UB-50	75	8 <sup>5</sup> / <sub>32</sub>	6 <sup>13</sup> / <sub>16</sub>	8 <sup>1</sup> / <sub>16</sub>	—	34	—	BK/BK	1.0
34/78	UBX-72	115	10 <sup>1</sup> / <sub>4</sub>	6 <sup>13</sup> / <sub>16</sub>	8 <sup>1</sup> / <sub>16</sub>	—	45	—	BK/BK	1.0

<sup>1</sup>SUPPLIED WITH HANDLE AND BOTTOM SPACER.  
<sup>2</sup>ADD <sup>1</sup>/<sub>16</sub>" TO INCLUDE BOTTOM SPACER.

### MAX™ CONSOLIDATED LINE—12 VOLT

BCI GROUP SIZE	BATTERY TYPE	RESERVE CAPACITY (MINS) AT 80°F.	OVERALL DIMENSIONS (INCHES)			APPROXIMATE WEIGHT IN POUNDS		ELECTROLYTE QUARTS TO FILL	COVER/CASE COLOR	UNIT VALUE
			LENGTH	WIDTH	HEIGHT <sup>2</sup>	DRY	WET			
26	26-MX-72	85	8 <sup>9</sup> / <sub>16</sub>	6 <sup>13</sup> / <sub>16</sub>	8 <sup>1</sup> / <sub>16</sub>	—	32	—	BK/BK	1.0
	26-MX-60	85	8 <sup>9</sup> / <sub>16</sub>	6 <sup>13</sup> / <sub>16</sub>	8 <sup>1</sup> / <sub>16</sub>	—	30	—	RD/TW	1.0
	26-MX-50	75	8 <sup>9</sup> / <sub>16</sub>	6 <sup>13</sup> / <sub>16</sub>	8 <sup>1</sup> / <sub>16</sub>	21	28	3.7	BL/TW	1.0
	26-MX-40	55	8 <sup>9</sup> / <sub>16</sub>	6 <sup>13</sup> / <sub>16</sub>	8 <sup>1</sup> / <sub>16</sub>	—	25	—	BK/BK	1.0
26R	26R-MX-72	85	8 <sup>9</sup> / <sub>16</sub>	6 <sup>13</sup> / <sub>16</sub>	8 <sup>1</sup> / <sub>16</sub>	—	32	—	BK/BK	1.0
	26R-MX-60	85	8 <sup>9</sup> / <sub>16</sub>	6 <sup>13</sup> / <sub>16</sub>	8 <sup>1</sup> / <sub>16</sub>	—	30	—	RD/TW	1.0
	26R-MX-50	75	8 <sup>9</sup> / <sub>16</sub>	6 <sup>13</sup> / <sub>16</sub>	8 <sup>1</sup> / <sub>16</sub>	21	28	3.7	BL/TW	1.0
	26R-MX-40	55	8 <sup>9</sup> / <sub>16</sub>	6 <sup>13</sup> / <sub>16</sub>	8 <sup>1</sup> / <sub>16</sub>	—	25	—	BK/BK	1.0
55	55-MX-60	85	8 <sup>15</sup> / <sub>16</sub>	6 <sup>1</sup> / <sub>16</sub>	8 <sup>1</sup> / <sub>2</sub>	—	31	—	BK/BK	1.0
	55-MX-50	75	8 <sup>15</sup> / <sub>16</sub>	6 <sup>1</sup> / <sub>16</sub>	8 <sup>1</sup> / <sub>2</sub>	19	28	3.4	BK/BK	1.0
70	70-MX-72	85	8 <sup>9</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>16</sub>	—	32	—	BK/BK	1.0
	70-MX-60	85	8 <sup>9</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>16</sub>	—	30	—	RD/TW	1.0
	70-MX-50	75	8 <sup>9</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>16</sub>	21	28	3.7	BL/TW	1.0
	70-MX-40	55	8 <sup>9</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>16</sub>	—	25	—	BK/BK	1.0

<sup>1</sup>SUPPLIED WITH HANDLE AND TOP SPACER.

### EXIDE PERFORMANCE EDGE™ LIGHT TRUCK AND VAN, OFF-ROAD AND 4X4—12 VOLT

BCI GROUP SIZE	BATTERY TYPE	RESERVE CAPACITY (MINS) AT 80°F.	OVERALL DIMENSIONS (INCHES)			APPROXIMATE WEIGHT IN POUNDS		ELECTROLYTE QUARTS TO FILL	COVER/CASE COLOR	UNIT VALUE
			LENGTH	WIDTH	HEIGHT	DRY	WET			
24	24-LT-60	115	10 <sup>1</sup> / <sub>4</sub>	6 <sup>13</sup> / <sub>16</sub>	9	27	39	4.9	BK/BK	1.0
24F	24F-LT-60	115	10 <sup>21</sup> / <sub>32</sub>	6 <sup>13</sup> / <sub>16</sub>	9	27	39	4.9	BK/BK	1.0
27	27-LT-60	130	12 <sup>1</sup> / <sub>32</sub>	6 <sup>13</sup> / <sub>16</sub>	8 <sup>15</sup> / <sub>16</sub>	27	43	6.1	BK/BK	1.0
27F	27F-LT-60	130	12 <sup>3</sup> / <sub>64</sub>	6 <sup>13</sup> / <sub>16</sub>	8 <sup>15</sup> / <sub>16</sub>	27	43	6.1	BK/BK	1.0
64	64-LT-60	145	11 <sup>1</sup> / <sub>2</sub>	6 <sup>3</sup> / <sub>16</sub>	8 <sup>3</sup> / <sub>16</sub>	—	46	—	BK/BK	1.0
74	74-LT-60	115	10 <sup>1</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>8</sub>	8 <sup>3</sup> / <sub>4</sub>	27	39	4.9	BK/BK	1.0
78	78-LT-60	115	10 <sup>1</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>8</sub>	7 <sup>3</sup> / <sub>4</sub>	—	36	—	BK/BK	1.0

### AUTOMOTIVE—6 VOLT

BCI GROUP SIZE	BATTERY TYPE	RESERVE CAPACITY (MINS) AT 80°F.	OVERALL DIMENSIONS (INCHES)			APPROXIMATE WEIGHT IN POUNDS		ELECTROLYTE QUARTS TO FILL	COVER/CASE COLOR	UNIT VALUE
			LENGTH	WIDTH	HEIGHT	DRY	WET			
2N	2N-40	170	10	5 <sup>1</sup> / <sub>2</sub>	9	21	—	3.9	HR/HR	1.0
17HF	17HF-40	110	7 <sup>3</sup> / <sub>16</sub>	6 <sup>3</sup> / <sub>4</sub>	9 <sup>1</sup> / <sub>8</sub>	17	—	3.5	HR/HR	1.0
19L	19L-40	125	8 <sup>1</sup> / <sub>4</sub>	6 <sup>3</sup> / <sub>4</sub>	7 <sup>17</sup> / <sub>32</sub>	—	25	3.1	HR/HR	1.0



# **AUTOMOTIVE—12 VOLT**

BCI GROUP SIZE	BATTERY TYPE	RESERVE CAPACITY (MINS) AT 80°F.	OVERALL DIMENSIONS (INCHES)			APPROXIMATE WEIGHT IN POUNDS		ELECTROLYTE QUARTS TO FILL	COVER/ CASE COLOR	UNIT VALUE
			LENGTH	WIDTH	HEIGHT	DRY	WET			
22F	22F-60	77	9 <sup>7</sup> / <sub>16</sub>	6 <sup>13</sup> / <sub>16</sub>	8 <sup>5</sup> / <sub>32</sub>	20	30	4.0	BK/BK	1.0
	22F-50	56	9 <sup>7</sup> / <sub>16</sub>	6 <sup>13</sup> / <sub>16</sub>	8 <sup>5</sup> / <sub>32</sub>	—	29	—	BL/TW	1.0
	22F-40	45	9 <sup>7</sup> / <sub>16</sub>	6 <sup>13</sup> / <sub>16</sub>	8 <sup>5</sup> / <sub>32</sub>	—	25	—	BK/TW	1.0
22NF	22NF-40	50	9 <sup>15</sup> / <sub>32</sub>	5 <sup>1</sup> / <sub>2</sub>	9 <sup>1</sup> / <sub>32</sub>	18	27	3.4	BK/BK	1.0
24	24-900	130	10 <sup>1</sup> / <sub>4</sub>	6 <sup>13</sup> / <sub>16</sub>	9	—	46	—	BK/BK	1.0
	24-72	130	10 <sup>1</sup> / <sub>4</sub>	6 <sup>13</sup> / <sub>16</sub>	9	—	41	—	BK/BK	1.0
	24-60P	100	10 <sup>1</sup> / <sub>4</sub>	6 <sup>13</sup> / <sub>16</sub>	9	—	38	—	BK/BK	1.0
	24-60	90	10 <sup>1</sup> / <sub>4</sub>	6 <sup>13</sup> / <sub>16</sub>	9	22	36	5.5	RD/TW	1.0
	24-50P	77	10 <sup>1</sup> / <sub>4</sub>	6 <sup>13</sup> / <sub>16</sub>	9	—	35	—	RD/TW	1.0
	24-50	67	10 <sup>1</sup> / <sub>4</sub>	6 <sup>13</sup> / <sub>16</sub>	9	18	32	5.7	BL/TW	1.0
	24-40	55	10 <sup>1</sup> / <sub>4</sub>	6 <sup>13</sup> / <sub>16</sub>	9	—	31	—	BK/BK	1.0
	24-30	45	10 <sup>1</sup> / <sub>4</sub>	6 <sup>13</sup> / <sub>16</sub>	9	—	30	—	BK/BK	1.0
24F	24F-900	130	10 <sup>21</sup> / <sub>32</sub>	6 <sup>13</sup> / <sub>16</sub>	9	—	46	—	BK/BK	1.0
	24F-72	130	10 <sup>21</sup> / <sub>32</sub>	6 <sup>13</sup> / <sub>16</sub>	9	—	41	—	BK/BK	1.0
	24F-60P	100	10 <sup>21</sup> / <sub>32</sub>	6 <sup>13</sup> / <sub>16</sub>	9	—	38	—	BK/BK	1.0
	24F-60	90	10 <sup>21</sup> / <sub>32</sub>	6 <sup>13</sup> / <sub>16</sub>	9	22	36	5.5	RD/TW	1.0
	24F-50P	77	10 <sup>21</sup> / <sub>32</sub>	6 <sup>13</sup> / <sub>16</sub>	9	—	35	—	RD/TW	1.0
	24F-50	67	10 <sup>21</sup> / <sub>32</sub>	6 <sup>13</sup> / <sub>16</sub>	9	18	32	5.7	BL/TW	1.0
	24F-40	55	10 <sup>21</sup> / <sub>32</sub>	6 <sup>13</sup> / <sub>16</sub>	9	—	31	—	BK/BK	1.0
	24F-30	45	10 <sup>21</sup> / <sub>32</sub>	6 <sup>13</sup> / <sub>16</sub>	9	—	30	—	BK/BK	1.0
26	26-72	85	8 <sup>9</sup> / <sub>16</sub>	6 <sup>13</sup> / <sub>16</sub>	8 <sup>1</sup> / <sub>16</sub>	—	32	—	BK/BK	1.0
	26-60	85	8 <sup>9</sup> / <sub>16</sub>	6 <sup>13</sup> / <sub>16</sub>	8 <sup>1</sup> / <sub>16</sub>	—	30	—	RD/TW	1.0
	26-50	75	8 <sup>9</sup> / <sub>16</sub>	6 <sup>13</sup> / <sub>16</sub>	8 <sup>1</sup> / <sub>16</sub>	21	28	3.7	BL/TW	1.0
	26-40	55	8 <sup>9</sup> / <sub>16</sub>	6 <sup>13</sup> / <sub>16</sub>	8 <sup>1</sup> / <sub>16</sub>	—	25	—	BK/BK	1.0
26R	26R-72	85	8 <sup>9</sup> / <sub>16</sub>	6 <sup>13</sup> / <sub>16</sub>	8 <sup>1</sup> / <sub>16</sub>	—	32	—	BK/BK	1.0
	26R-60	85	8 <sup>9</sup> / <sub>16</sub>	6 <sup>13</sup> / <sub>16</sub>	8 <sup>1</sup> / <sub>16</sub>	—	30	—	RD/TW	1.0
	26R-50	75	8 <sup>9</sup> / <sub>16</sub>	6 <sup>13</sup> / <sub>16</sub>	8 <sup>1</sup> / <sub>16</sub>	21	28	3.7	BL/TW	1.0
	26R-40	55	8 <sup>9</sup> / <sub>16</sub>	6 <sup>13</sup> / <sub>16</sub>	8 <sup>1</sup> / <sub>16</sub>	—	25	—	BK/BK	1.0
27	27-60	110	12 <sup>1</sup> / <sub>32</sub>	6 <sup>13</sup> / <sub>16</sub>	8 <sup>13</sup> / <sub>16</sub>	25	40	6.2	RD/TW	1.0
	27-50	90	12 <sup>1</sup> / <sub>32</sub>	6 <sup>13</sup> / <sub>16</sub>	8 <sup>13</sup> / <sub>16</sub>	—	37	—	BL/TW	1.0
27F	27F-60	110	12 <sup>31</sup> / <sub>64</sub>	6 <sup>13</sup> / <sub>16</sub>	8 <sup>13</sup> / <sub>16</sub>	25	40	6.2	RD/TW	1.0
	27F-50	90	12 <sup>31</sup> / <sub>64</sub>	6 <sup>13</sup> / <sub>16</sub>	8 <sup>13</sup> / <sub>16</sub>	—	37	—	BL/TW	1.0
29NF	29NF-40	95	13	5 <sup>1</sup> / <sub>2</sub>	9	27	40	4.9	BK/HR	1.0
34	34-60	110	10 <sup>1</sup> / <sub>4</sub>	6 <sup>13</sup> / <sub>16</sub>	7 <sup>13</sup> / <sub>16</sub>	—	34	—	BK/BK	1.0
41	41-60	110	11 <sup>1</sup> / <sub>8</sub>	6 <sup>7</sup> / <sub>8</sub>	6 <sup>7</sup> / <sub>8</sub>	30	39	4.6	BK/BK	1.0
42	42-60	65	9 <sup>23</sup> / <sub>32</sub>	6 <sup>7</sup> / <sub>8</sub>	6 <sup>7</sup> / <sub>8</sub>	19	27	3.6	BK/BK	1.0
45	45-50	70	9 <sup>15</sup> / <sub>32</sub>	5 <sup>1</sup> / <sub>2</sub>	9 <sup>1</sup> / <sub>32</sub>	21	29	3.3	BK/BK	1.0
46	46-50	87	10 <sup>21</sup> / <sub>32</sub>	6 <sup>13</sup> / <sub>16</sub>	9	24	—	5.5	BK/BK	1.0
47*	47-50	80	9 <sup>9</sup> / <sub>16</sub>	6 <sup>7</sup> / <sub>8</sub>	7 <sup>9</sup> / <sub>16</sub>	28	—	3.5	BK/BK	1.0
48	48-50	110	11 <sup>15</sup> / <sub>16</sub>	6 <sup>7</sup> / <sub>8</sub>	7 <sup>9</sup> / <sub>16</sub>	28	—	4.9	BK/BK	1.0
49	49-60	150	15	6 <sup>7</sup> / <sub>8</sub>	7 <sup>9</sup> / <sub>16</sub>	37	51	5.3	BK/BK	1.0
53	53-40	65	13	4 <sup>11</sup> / <sub>16</sub>	8 <sup>3</sup> / <sub>16</sub>	23	—	3.5	HR/HR	1.0
55	55-60	85	8 <sup>15</sup> / <sub>16</sub>	6 <sup>1</sup> / <sub>16</sub>	8 <sup>1</sup> / <sub>2</sub>	—	31	—	BK/BK	1.0
	55-50	75	8 <sup>15</sup> / <sub>16</sub>	6 <sup>1</sup> / <sub>16</sub>	8 <sup>1</sup> / <sub>2</sub>	19	28	3.4	BK/BK	1.0
	55-40	60	8 <sup>15</sup> / <sub>16</sub>	6 <sup>1</sup> / <sub>16</sub>	8 <sup>1</sup> / <sub>2</sub>	—	26	—	BK/BK	1.0
58	58-60	80	9 <sup>7</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>4</sub>	7	22	30	3.4	BK/BK	1.0
	58-50	75	9 <sup>7</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>4</sub>	7	—	28	—	BK/BK	1.0
62	62-60	80	8 <sup>15</sup> / <sub>16</sub>	6 <sup>7</sup> / <sub>8</sub>	8 <sup>7</sup> / <sub>8</sub>	21	31	3.8	BK/BK	1.0
64	64-60	115	11 <sup>1</sup> / <sub>2</sub>	6 <sup>5</sup> / <sub>8</sub>	8 <sup>7</sup> / <sub>8</sub>	—	45	—	BK/BK	1.0
65	65-60	140	11 <sup>3</sup> / <sub>16</sub>	7 <sup>13</sup> / <sub>32</sub>	7 <sup>9</sup> / <sub>16</sub>	—	51	—	BK/BK	1.0
70	70-72	85	8 <sup>9</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>8</sub>	7 <sup>11</sup> / <sub>16</sub>	—	32	—	BK/BK	1.0
	70-60	85	8 <sup>9</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>8</sub>	7 <sup>11</sup> / <sub>16</sub>	—	30	—	RD/TW	1.0
	70-50	75	8 <sup>9</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>8</sub>	7 <sup>11</sup> / <sub>16</sub>	21	28	3.7	BL/TW	1.0
	70-40	55	8 <sup>9</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>8</sub>	7 <sup>11</sup> / <sub>16</sub>	—	25	—	BK/BK	1.0
74	74-900	130	10 <sup>1</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>8</sub>	8 <sup>3</sup> / <sub>4</sub>	—	46	—	BK/BK	1.0
	74-72	130	10 <sup>1</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>8</sub>	8 <sup>3</sup> / <sub>4</sub>	—	41	—	BK/BK	1.0
	74-60P	100	10 <sup>1</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>8</sub>	8 <sup>3</sup> / <sub>4</sub>	—	38	—	BK/BK	1.0
	74-60	90	10 <sup>1</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>8</sub>	8 <sup>3</sup> / <sub>4</sub>	22	36	5.5	RD/TW	1.0
	74-50P	77	10 <sup>1</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>8</sub>	8 <sup>3</sup> / <sub>4</sub>	—	35	—	RD/TW	1.0
	74-50	67	10 <sup>1</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>8</sub>	8 <sup>3</sup> / <sub>4</sub>	18	32	5.7	BL/TW	1.0
	74-40	55	10 <sup>1</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>8</sub>	8 <sup>3</sup> / <sub>4</sub>	—	31	—	BK/BK	1.0
	74-30	45	10 <sup>1</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>8</sub>	8 <sup>3</sup> / <sub>4</sub>	—	30	—	BK/BK	1.0
75	75-60	90	9 <sup>1</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>16</sub>	7 <sup>9</sup> / <sub>16</sub>	27	34	3.7	BK/BK	1.0
78	78-60	115	10 <sup>1</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>16</sub>	7 <sup>9</sup> / <sub>16</sub>	—	36	—	BK/BK	1.0

\*AVAILABLE 1<sup>ST</sup> QUARTER 1989.



# COMMERCIAL AND FARM TRACTOR BATTERIES

## HEAVY DUTY—FARM AND COMMERCIAL—12 VOLT

BCI GROUP SIZE	BATTERY TYPE	RESERVE CAPACITY (MINS) AT 80°F.	OVERALL DIMENSIONS (INCHES)			APPROXIMATE WEIGHT IN POUNDS		ELECTROLYTE QUARTS TO FILL	COVER/CASE COLOR	UNIT VALUE
			LENGTH	WIDTH	HEIGHT	DRY	WET			
3EE	F-3EE	120	19 <sup>1</sup> / <sub>16</sub>	4 <sup>3</sup> / <sub>16</sub>	8 <sup>3</sup> / <sub>16</sub>	34	50	5.9	HR/HR	1.0
3ET	F-3ET	120	19 <sup>1</sup> / <sub>16</sub>	4 <sup>3</sup> / <sub>16</sub>	9 <sup>1</sup> / <sub>16</sub>	35	53	6.6	HR/HR	1.5
4D	COM-4D-P <sup>2</sup>	375	20 <sup>1</sup> / <sub>16</sub>	8 <sup>1</sup> / <sub>16</sub>	9 <sup>1</sup> / <sub>16</sub>	68	112	16.4	BK/BK	3.0
	COM-4D <sup>1</sup>	290	20 <sup>1</sup> / <sub>16</sub>	8 <sup>1</sup> / <sub>16</sub>	9 <sup>1</sup> / <sub>16</sub>	73	106	12.5	HR/HR	3.0
4DLT	F-4DLT	250	19 <sup>1</sup> / <sub>16</sub>	8 <sup>3</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>16</sub>	62	83	8.2	HR/HR	2.0
8D	COM-8D-P <sup>2,3</sup>	450	20 <sup>3</sup> / <sub>4</sub>	11 <sup>1</sup> / <sub>8</sub>	10 <sup>1</sup> / <sub>8</sub>	82	139	19.8	BK/BK	4.0
	COM-8D <sup>1,4</sup>	440	20 <sup>3</sup> / <sub>4</sub>	11 <sup>1</sup> / <sub>8</sub>	10 <sup>1</sup> / <sub>8</sub>	95	138	16.4	HR/HR	4.0
	D-8D-P <sup>2,3</sup>	330	20 <sup>3</sup> / <sub>4</sub>	11 <sup>1</sup> / <sub>8</sub>	10 <sup>1</sup> / <sub>8</sub>	66	137	20.8	BK/BK	4.0
16TF	F-16TF	220	16 <sup>1</sup> / <sub>2</sub>	7 <sup>1</sup> / <sub>8</sub>	11 <sup>1</sup> / <sub>16</sub>	64	—	9.8	HR/HR	2.5
17TF	F-17TF	120	17	6 <sup>1</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>8</sub>	38	—	7.6	HR/HR	1.0
20H	F-20H	45	7 <sup>1</sup> / <sub>16</sub>	6 <sup>1</sup> / <sub>16</sub>	9 <sup>1</sup> / <sub>16</sub>	18	—	3.7	HR/HR	1.0
30H	COM-30H-P	165	13 <sup>3</sup> / <sub>16</sub>	6 <sup>1</sup> / <sub>16</sub>	9 <sup>3</sup> / <sub>16</sub>	43	52	6.7	BK/BK	1.5
	F-30H-P	135	13 <sup>3</sup> / <sub>16</sub>	6 <sup>1</sup> / <sub>16</sub>	9 <sup>3</sup> / <sub>16</sub>	—	47	—	BK/BK	1.5

<sup>1</sup>MANUFACTURED WITH ROPE HANDLES.

<sup>2</sup>MANUFACTURED IN HIGH TECH POLYPROPYLENE CASE AND COVER WITH POLY HANDLES.

<sup>3</sup>AVAILABLE WITH SIDE TERMINAL PLANS 312 or 313—SPECIFY <sup>3</sup>/<sub>4</sub>" OR <sup>1</sup>/<sub>2</sub>" POSITIVE BOLT.

<sup>4</sup>AVAILABLE WITH SIDE TERMINAL PLANS 295 or 299—SPECIFY <sup>1</sup>/<sub>2</sub>" OR <sup>3</sup>/<sub>4</sub>" POSITIVE BOLT.

## EXIDE GROUP 31 MAINTENANCE-FREE—12 VOLT

BCI GROUP SIZE	BATTERY TYPE	RESERVE CAPACITY (MINS) AT 80°F.	OVERALL DIMENSIONS (INCHES)			APPROXIMATE WEIGHT IN POUNDS		ELECTROLYTE QUARTS TO FILL	COVER/CASE COLOR	UNIT VALUE
			LENGTH	WIDTH	HEIGHT	DRY	WET			
31	31MF-9D <sup>1</sup>	190	13	6 <sup>3</sup> / <sub>4</sub>	9 <sup>3</sup> / <sub>16</sub>	—	62	—	BK/BK	1.5
	31MF-6D <sup>1</sup>	160	13	6 <sup>3</sup> / <sub>4</sub>	9 <sup>3</sup> / <sub>16</sub>	—	52	—	BK/BK	1.5
	31MF-6E <sup>2</sup>	160	13	6 <sup>3</sup> / <sub>4</sub>	9 <sup>3</sup> / <sub>16</sub>	—	52	—	BK/BK	1.5

<sup>1</sup>STUD TERMINAL.

<sup>2</sup>SAE TERMINAL.

## EXIDE GROUP 31 LOW MAINTENANCE—12 VOLT

BCI GROUP SIZE	BATTERY TYPE	RESERVE CAPACITY (MINS) AT 80°F.	OVERALL DIMENSIONS (INCHES)			APPROXIMATE WEIGHT IN POUNDS		ELECTROLYTE QUARTS TO FILL	COVER/CASE COLOR	UNIT VALUE
			LENGTH	WIDTH	HEIGHT	DRY	WET			
31	HP-31D <sup>1</sup>	190	13	6 <sup>3</sup> / <sub>4</sub>	9 <sup>3</sup> / <sub>16</sub>	—	62	—	BK/BK	1.5
	HP-31E <sup>2</sup>	190	13	6 <sup>3</sup> / <sub>4</sub>	9 <sup>3</sup> / <sub>16</sub>	—	62	—	BK/BK	1.5
	HD-31D <sup>1</sup>	170	13	6 <sup>3</sup> / <sub>4</sub>	9 <sup>3</sup> / <sub>16</sub>	41	55	5.5	BK/BK	1.5
	HD-31E <sup>2</sup>	170	13	6 <sup>3</sup> / <sub>4</sub>	9 <sup>3</sup> / <sub>16</sub>	41	55	5.5	BK/BK	1.5
	COM-31D <sup>1</sup>	160	13	6 <sup>3</sup> / <sub>4</sub>	9 <sup>3</sup> / <sub>16</sub>	—	52	—	BK/BK	1.5
	COM-31E <sup>2</sup>	160	13	6 <sup>3</sup> / <sub>4</sub>	9 <sup>3</sup> / <sub>16</sub>	—	52	—	BK/BK	1.5
	D-31D <sup>1</sup>	130	13	6 <sup>3</sup> / <sub>4</sub>	9 <sup>3</sup> / <sub>16</sub>	—	47	—	BK/BK	1.5
	D-31E <sup>2</sup>	130	13	6 <sup>3</sup> / <sub>4</sub>	9 <sup>3</sup> / <sub>16</sub>	—	47	—	BK/BK	1.5

<sup>1</sup>STUD TERMINAL.

<sup>2</sup>SAE TERMINAL.

## HEAVY DUTY—FARM AND COMMERCIAL—6 VOLT

BCI GROUP SIZE	BATTERY TYPE	RESERVE CAPACITY (MINS) AT 80°F.	OVERALL DIMENSIONS (INCHES)			APPROXIMATE WEIGHT IN POUNDS		ELECTROLYTE QUARTS TO FILL	COVER/CASE COLOR	UNIT VALUE
			LENGTH	WIDTH	HEIGHT	DRY	WET			
1	COM-1H-P	180	9 <sup>1</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>8</sub>	9 <sup>3</sup> / <sub>16</sub>	18	31	4.7	BK/BK	1.0
	COM-1-P	110	9 <sup>1</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>8</sub>	9 <sup>3</sup> / <sub>16</sub>	14	28	5.2	BK/BK	1.0
2	COM-2-P	230 <sup>*</sup>	10 <sup>3</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>8</sub>	9 <sup>3</sup> / <sub>16</sub>	23	38	—	BK/BK	1.0
2E	F-2E	195	19 <sup>1</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>16</sub>	8 <sup>3</sup> / <sub>16</sub>	27	—	5.5	HR/HR	1.0
3	COM-3	235	11 <sup>1</sup> / <sub>2</sub>	7	9 <sup>3</sup> / <sub>16</sub>	31	—	6.1	HR/HR	1.0
3EH	F-3EH	340	19 <sup>1</sup> / <sub>16</sub>	4 <sup>3</sup> / <sub>16</sub>	9 <sup>3</sup> / <sub>16</sub>	40	56	6.1	HR/HR	1.5
4	COM-4EC-P	330	12 <sup>3</sup> / <sub>8</sub>	6 <sup>3</sup> / <sub>4</sub>	9 <sup>3</sup> / <sub>16</sub>	32	51	6.9	BK/BK	1.5
	T-4H-P	280	12 <sup>3</sup> / <sub>8</sub>	6 <sup>3</sup> / <sub>4</sub>	9 <sup>3</sup> / <sub>16</sub>	28	46	7.1	BK/BK	1.5
	T-4-P	265	12 <sup>3</sup> / <sub>8</sub>	6 <sup>3</sup> / <sub>4</sub>	9 <sup>3</sup> / <sub>16</sub>	—	43	—	BK/BK	1.5
4EH	F-4EH	320	19 <sup>1</sup> / <sub>16</sub>	—	9 <sup>3</sup> / <sub>16</sub>	39	—	6.1	HR/HR	1.5
5D	COM-5D	340	13 <sup>3</sup> / <sub>16</sub>	7	9 <sup>3</sup> / <sub>16</sub>	41	57	6.0	HR/HR	1.5
7D	COM-7D	360	16 <sup>1</sup> / <sub>8</sub>	7	9 <sup>3</sup> / <sub>16</sub>	41	61	7.3	HR/HR	2.0

\*INCREASE COLD CRANK & RESERVE FROM 560 CCA/170 RC TO 650 CCA/230 RC 1ST QUARTER 1989 ON A RUNNING CHANGE BASIS.

## SPECIAL APPLICATION BATTERIES

### THE COMMANDER'S EDGE™ MARINE STARTING AND DEEP CYCLE – 12 VOLT

BCI GROUP SIZE	BATTERY TYPE	EXPECTED OPERATING TIME (MINUTES) @ 80°F. 25 AMPS	OVERALL DIMENSIONS (INCHES)			APPROXIMATE WEIGHT IN POUNDS		ELECTROLYTE QUARTS TO FILL	COVER/CASE COLOR	UNIT VALUE
			LENGTH	WIDTH	HEIGHT	DRY	WET			
24	CE-24 <sup>1</sup>	130	11¼	6½ <sup>16</sup>	10	—	45	—	BL/TW	1.0
27	CE-27 <sup>1</sup>	180	13½ <sup>16</sup>	6½ <sup>16</sup>	10	—	54	—	BL/TW	1.0

<sup>1</sup>MANUFACTURED WITH HANDLES; COMBINATION POST (FOR SAE OR WING NUT CONNECTION).  
<sup>2</sup>MANUFACTURED WITH STATE OF CHARGE INDICATOR EYE – THE EXIDE POWER CHECK.™

### THE ANGLER'S EDGE™ MARINE/RV DEEP CYCLE – 12 VOLT

BCI GROUP SIZE	BATTERY TYPE	EXPECTED OPERATING TIME (MINUTES) @ 80°F. 25 AMPS	OVERALL DIMENSIONS (INCHES)			APPROXIMATE WEIGHT IN POUNDS		ELECTROLYTE QUARTS TO FILL	COVER/CASE COLOR	UNIT VALUE
			LENGTH	WIDTH	HEIGHT	DRY	WET			
24	DC-24 <sup>1</sup>	125	11¼	6½ <sup>16</sup>	10	30	45	5.6	BK/TW	1.0
27	DC-27 <sup>1</sup>	160	13½ <sup>16</sup>	6½ <sup>16</sup>	10	37	53	6.6	BK/TW	1.0

<sup>1</sup>MANUFACTURED WITH HANDLES; COMBINATION POST (FOR SAE OR WING NUT CONNECTION).  
<sup>2</sup>MANUFACTURED WITH STATE-OF-CHARGE INDICATOR EYE – THE EXIDE POWER CHECK.™

### THE MARINER'S EDGE™ MARINE STARTING – 12 VOLT

BCI GROUP SIZE	BATTERY TYPE	RESERVE CAPACITY (MINS) AT 80°F.	OVERALL DIMENSIONS (INCHES)			APPROXIMATE WEIGHT IN POUNDS		ELECTROLYTE QUARTS TO FILL	COVER/CASE COLOR	UNIT VALUE
			LENGTH	WIDTH	HEIGHT	DRY	WET			
24	XHD-M-24 <sup>1,2</sup>	97	11¼	6½ <sup>16</sup>	10	24	38	5.7	RD/TW	1.0
	HD-M-24 <sup>1</sup>	500	11¼	6½ <sup>16</sup>	10	20	35	6.1	RD/TW	1.0
	M-24 <sup>1</sup>	400	11¼	6½ <sup>16</sup>	10	—	33	6.2	BL/TW	1.0

<sup>1</sup>MANUFACTURED WITH HANDLES; COMBINATION POST (FOR SAE OR WING NUT CONNECTION).  
<sup>2</sup>MANUFACTURED WITH STATE-OF-CHARGE INDICATOR EYE – THE EXIDE POWER CHECK.™

### MARINE AND COMMERCIAL – 8 VOLT

BCI GROUP SIZE	BATTERY TYPE	RESERVE CAPACITY (MINS) AT 80°F.	AMP HOUR 8 HR. RATE	OVERALL DIMENSIONS (INCHES)			APPROXIMATE WEIGHT IN POUNDS		ELECTROLYTE QUARTS TO FILL	COVER/CASE COLOR	UNIT VALUE
				LENGTH	WIDTH	HEIGHT	DRY	WET			
1	8-1	109	70	9	6½ <sup>16</sup>	8½ <sup>16</sup>	19	—	4.2	HR/HR	1.0
2	8-2	135	93	10¼	6½ <sup>16</sup>	8½ <sup>16</sup>	25	—	5.4	HR/HR	1.0
8VM	8VM-AD <sup>1,2</sup>	—	202	27½ <sup>16</sup>	7½ <sup>16</sup>	11½	107	—	13.4	HR/HR	3.5
	8VM-GD <sup>1,2</sup>	—	221	26½	8½ <sup>16</sup>	11½	127	—	14.5	HR/HR	4.0
	8VM-D <sup>2</sup>	—	165	19¼	7¼	11½	68	—	13.5	HR/HR	3.0

<sup>1</sup>SUPPLIED WITH ROPE HANDLES.  
<sup>2</sup>CABLES – (#20331) ARE SHIPPED WITH EACH ORDER OF COMPLETE SET OF FOUR 8VM SERIES 8 VOLT MARINE BATTERIES.

### THE CUTTING EDGE™ GARDEN TRACTOR, SNOWMOBILE, SMALL ENGINE – 12 VOLT

BCI GROUP SIZE	BATTERY TYPE	RESERVE CAPACITY (MINS) AT 80°F.	OVERALL DIMENSIONS (INCHES)			APPROXIMATE WEIGHT IN POUNDS		ELECTROLYTE QUARTS TO FILL	COVER/CASE COLOR	UNIT VALUE
			LENGTH	WIDTH	HEIGHT	DRY	WET			
U1	GT-9L	33	7¼	5½ <sup>16</sup>	7½ <sup>16</sup>	12	17	2.1	BK/BK	0.5
	GT-9LM	33	8¼	5½ <sup>16</sup>	7½ <sup>16</sup>	12	—	2.1	BK/BK	0.5
	GT-7L	23	7¼	5½ <sup>16</sup>	7½ <sup>16</sup>	9	15	2.4	BK/BK	0.5
U1R	GT-9R	33	7¼	5½ <sup>16</sup>	7½ <sup>16</sup>	12	17	2.1	BK/BK	0.5
U2	GT-5L	15	6¼	5½ <sup>16</sup>	7¼	10	—	1.6	HR/HR	0.5

L – POSITIVE TERMINAL ON LEFT.  
R – POSITIVE TERMINAL ON RIGHT.  
M – MANIFOLD VENTING SYSTEM.



# EXIDE PRODUCT FEATURES

## CONVENTIONAL AUTOMOTIVE

- High impact resistant polypropylene construction.
- Computer designed radial grid power path.
- Premium starting power for reliable starts in hot and cold climates.
- Designed for extended service life to insure worry-free performance.
- Engineered to meet the electrical requirements of today's high tech vehicles.

### Universal Edge™

- Dual terminal configuration for application flexibility.
- Pack-Tite™ plate construction provides excellent vibration resistance.
- Top or side terminals can be used for accessory hook-up.
- High tech construction designed to withstand temperature extremes for reliable performance.

### Max™

- Convenient carry handle.
- Compact design packs more power than most batteries twice the size.
- Reserve capacity designed to provide back-up power during electrical system failure.

### Performance Edge™ Light Truck, Van, Off-Road

- Vibra-grip plate bonding prevents internal damage from vibration.
- Extra reserve capacity because of higher electrical demands.
- Superior alloy technology allows for shallow-cycling requirements.

## SPECIAL APPLICATION MARINE BATTERIES

### The Commander's Edge™

- Combines the best features of starting and cycling.
- Power Check™ indicates state of charge.
- Stainless steel hardware for superior corrosion resistance.

### The Mariner's Edge™ and Angler's Edge™

- Power Check™, state of charge indicator on DC-24, DC-27 & XHD-M-24.
- Convenient carry handle that folds out of the way.

## SPECIAL APPLICATION UTILITY BATTERIES

### The Cutting Edge™ Lawn and Garden Batteries

- Tite-Pak™ construction resists vibration damage.

## SPECIAL APPLICATION CYCLING BATTERIES

### Golf Car

- Removable carry handle eases installation.
- "Single Pull" vent access system saves time.

### Floor Scrubber/Sweeper

- Premium performance to published specifications.
- Long life-alloys deliver over and over.
- Cycle Master™ separators resist deterioration for longer service.
- Tite-Pak™ construction resists vibration damage.

### Heavy Duty Farm and Commercial

- Armored Plate® vibration resistance system.
- Unique alloys that resist overcharge and allow "shallow cycling".
- Premium over size separators for superior electrical flow and short resistance.
- Durable polypropylene containers resist impact damage (some sizes).
- Solid lead terminals deliver all the power available.

### Group 31

- Accessable manifold vent design exits gases away from terminals.
- Polyethylene envelope separator prevents internal shorting.
- Armored Plate® vibration resistance system.
- Stainless steel hardware eliminates power robbing corrosion.
- Individual cell inspection ports allow maintenance in extreme operating conditions.
- Computer controlled "through the wall" welding assures structural integrity.

# EXIDE®

**The name that started an industry.**

Exide Corporation, 645 Penn Street, Reading, PA 19601  
215-378-0500, Telex 378-0616, TWX 510-651-5288

# SPECIAL APPLICATION BATTERIES

## FLOOR SCRUBBER AND SWEEPER—6 & 12 VOLT

BCI GROUP SIZE	BATTERY TYPE	# MINUTES @ 80°F.		AMP HOUR			VOLT	OVERALL DIMENSIONS (INCHES)			APPROXIMATE WEIGHT IN POUNDS		ELECTROLYTE QUARTS TO FILL	COVER/CASE COLOR	UNIT VALUE
		25A	75A	6	8	20		LENGTH	WIDTH	HEIGHT	DRY	WET			
FS	FS2-D	425	115	172	180	208	6	11 $\frac{1}{8}$	7	11 $\frac{1}{8}$	57	—	6.8	HR/HR	2.0
	FS6-D	650	180	248	259	296	6	11 $\frac{3}{4}$	7	16 $\frac{5}{16}$	94	—	10.0	HR/HR	3.0
	FS8-D*	575	150	208	216	242	6	12 $\frac{3}{4}$	7	14 $\frac{3}{8}$	79	—	9.7	HR/HR	2.5
	FS12-D**	400	108	163	171	190	12	15 $\frac{1}{2}$	7	14 $\frac{3}{8}$	105	—	10.0	HR/HR	4.0
	FS13-D*	200	51	93	111	118	12	18	7 $\frac{1}{2}$	9 $\frac{1}{2}$	62	—	7.6	HR/HR	2.0
	GC-5 <sup>2</sup>	480	135	192	200	226	6	10 $\frac{3}{8}$	7 $\frac{1}{16}$	11 $\frac{1}{32}$ <sup>1</sup>	—	68	—	GN/BK	1.5
	GC-4 <sup>2</sup>	390	107	158	165	186	6	10 $\frac{3}{8}$	7 $\frac{1}{16}$	11 $\frac{1}{32}$ <sup>1</sup>	46	64	6.9	GN/BK	1.5
	GC-3 <sup>2</sup>	285	91	132	136	154	6	10 $\frac{3}{8}$	7 $\frac{1}{16}$	11 $\frac{1}{32}$ <sup>1</sup>	—	58	—	GN/BK	1.5
	DC-9	43	11	20	21	23	12	7 $\frac{3}{4}$	5 $\frac{1}{16}$	7 $\frac{1}{16}$	14	20	2.3	BK/BK	0.5
	DC-22NF	90	23	41	43	48	12	9 $\frac{1}{32}$	5 $\frac{1}{2}$	9 $\frac{1}{32}$	22	31	3.6	BK/TW	1.0
	DC-24	125	37	60	62	80	12	11 $\frac{1}{4}$	6 $\frac{1}{16}$	10	30	45	5.5	BK/TW	1.0
	DC-27	160	49	83	85	105	12	13 $\frac{1}{16}$	6 $\frac{1}{16}$	10	39	56	7.0	BK/TW	1.0

\*AVAILABLE 1ST QUARTER 1989.

\*\*AVAILABLE 2ND QUARTER 1989.

<sup>1</sup>DIMENSIONS TAKEN FROM BOTTOM OF BATTERY TO TOP OF TERMINAL (WITH AUTOMOTIVE POSTS BATTERY HEIGHT IS 10 $\frac{1}{32}$ ").

<sup>2</sup>OFFSET COMBINATION TERMINALS (FOR SAE OR HEX NUT CONNECTION).

## UTILITY, WHEELCHAIR AND SPECIAL APPLICATION DEEP CYCLE—12 VOLT

BCI GROUP SIZE	BATTERY TYPE	EXPECTED OPERATING TIME (MINUTES) @ 80°F. 25 AMPS	OVERALL DIMENSIONS (INCHES)			APPROXIMATE WEIGHT IN POUNDS		ELECTROLYTE QUARTS TO FILL	COVER/CASE COLOR	UNIT VALUE
			LENGTH	WIDTH	HEIGHT	DRY	WET			
U1	DC-9 <sup>1</sup>	43	7 $\frac{3}{4}$	5 $\frac{1}{16}$	7 $\frac{1}{16}$	14	20	2.3	BK/BK	0.5
22NF	DC-22NF <sup>1</sup>	90	9 $\frac{1}{32}$	5 $\frac{1}{2}$	9 $\frac{1}{32}$	21	31	3.6	BK/TW	1.0

<sup>1</sup>MANUFACTURED WITH HANDLES.

## GOLF CAR AND ELECTRIC VEHICLE—6 VOLT

BCI GROUP SIZE	BATTERY TYPE	MINUTES AT 75 AMPS TO 5.25V	OVERALL DIMENSIONS (INCHES)			APPROXIMATE WEIGHT IN POUNDS		ELECTROLYTE QUARTS TO FILL	COVER/CASE COLOR	UNIT VALUE
			LENGTH	WIDTH	HEIGHT <sup>1</sup>	DRY	WET			
GC2	GC-5 <sup>2,3</sup>	135	10 $\frac{3}{8}$	7 $\frac{1}{16}$	11 $\frac{1}{32}$	—	68	—	GN/BK	1.5
	GC-4 <sup>2,3</sup>	107	10 $\frac{3}{8}$	7 $\frac{1}{16}$	11 $\frac{1}{32}$	46	64	6.9	GN/BK	1.5
	GC-4 <sup>4</sup>	107	10 $\frac{3}{8}$	7 $\frac{1}{16}$	11 $\frac{1}{32}$	—	64	—	GN/BK	1.5
	GC-3 <sup>2,3</sup>	91	10 $\frac{3}{8}$	7 $\frac{1}{16}$	11 $\frac{1}{32}$	—	58	—	GN/BK	1.5

<sup>1</sup>DIMENSIONS TAKEN FROM BOTTOM OF BATTERY TO TOP OF TERMINAL (WITH AUTOMOTIVE POSTS, BATTERY HEIGHT IS 10 $\frac{1}{32}$ ").

<sup>2</sup>MANUFACTURED WITH HANDLES.

<sup>3</sup>OFFSET COMBINATION TERMINALS (FOR SAE OR HEX NUT CONNECTION).

<sup>4</sup>SAE TYPE A TAPERED TERMINALS.

## ORDNANCE

BCI GROUP SIZE	BATTERY TYPE	RESERVE CAPACITY (MINS) AT 80°F.	AMP/HOUR 20 HOUR RATE	OVERALL DIMENSIONS (INCHES)			APPROXIMATE WEIGHT IN POUNDS		ELECTROLYTE QUARTS TO FILL	COVER/CASE COLOR	UNIT VALUE
				LENGTH	WIDTH	HEIGHT	DRY	WET			
2HN	2HN-D	75	45	10 $\frac{1}{4}$	5 $\frac{1}{2}$	8 $\frac{1}{16}$	25	—	3.5	HR/HR	1.0
4HN*	4HN-D	28	21	10 $\frac{1}{4}$	5 $\frac{1}{16}$	9 $\frac{1}{16}$	32	—	3.3	HR/HR	1.0
6"V	6TN-D	180	100	11 $\frac{1}{16}$	10 $\frac{1}{16}$	9	53	—	6.8	HR/HR	2.0

\*4HN IS A 24 VOLT BATTERY.

**LEGEND: COLOR CODE**  
 BK—BLACK RD—RED  
 BL—BLUE TW—TRANSPARENT  
 GN—GREEN WH—WHITE  
 HR—HARD RUBBER (BLACK)



CERTIFICATION OF BIDDER/VENDOR

The undersigned, on behalf of Exide Corporation, does hereby make the following representations to the City of Fort Wayne, Indiana.

WHEREAS, it is acknowledged that the Common Council of the City of Fort Wayne, Indiana, has passed an ordinance condemning the apartheid policies of the country of South Africa;

WHEREAS, council's ordinance requires that all persons, firms or corporations submitting bids to the City, for goods and services, certify, as part of the bid, that such entity does not support the policies of apartheid in South Africa.

The undersigned states, on behalf of Exide Corporation, that Exide Corporation does not support or endorse the policy of apartheid in South Africa.

IN WITNESS WHEREOF, this certification has been signed this \_\_\_\_\_ day of \_\_\_\_\_, 19 \_\_\_\_\_.

Exide Corporation

Name of Bidder/Vendor



Name and Title of Person Signing

## BID, OFFER OR PROPOSAL FOR SALE OR LEASE OF MATERIALS

(Defined at I.C. 36-1-2-9.5)  
(Please type or print)

Date: October 24, 1989

1. Governmental Unit: City of Fort Wayne  
2. County: Allen  
3. Bidder (Firm): Exide Corporation  
Address: 4024 Merchant Road  
City/State: Fort Wayne, IN 46818  
4. Telephone Number: (219) 489-7816  
5. Agent of Bidder (if applicable):

Pursuant to notices given, the undersigned offers bid(s) to City of Fort Wynn Governmental Unit) in accordance with the following attachment(s) which specify the class or item number or description, quantity, unit, unit price and total amount.

The contract will be awarded by classes or items, in accordance with specifications. Any changes or alterations in the items specified will render such bid void as to that class or item. Bidder promises that he has not offered nor received a less price than the price stated in his bid for the materials included in said bid. Bidder further agrees that he will not withdraw his bid from the office in which it is filed. A certified check or bond shall be filed with each bid if required, and liability for breach shall be enforceable upon the contract, the bond or certified check or both as the case may be.

Signature of Bidder or Agent

## BID OFFER OR PROPOSAL

Attach separate sheet listing each item bid based on specifications published by governing body. Following is an example of the bid format:

Class or Item	Quantity	Unit	Description	Unit Price	Amount
---------------	----------	------	-------------	------------	--------

### NON-COLLUSION AFFIDAVIT

STATE OF INDIANA )  
ALLEN COUNTY ) SS:

The undersigned bidder or agent, being duly sworn on oath, says that he has not, nor has any other member, representative, or agent of the firm, company, corporation or partnership represented by him, entered into any combination, collusion or agreement with any person relative to the price to be bid by anyone at such letting nor to prevent any person from bidding nor to induce anyone to refrain from bidding, and that this bid is made without reference to any other bid and without any agreement, understanding or combination with any other person in reference to such bidding.

He further says that no person or persons, firms, or corporation has, have or will receive directly or indirectly, any rebate, fee, gift, commission or thing of value on account of such sale.

Exide Corporation

Blodder 41 FM

Signature of Bladder or Agent

Subscribed and sworn to before me this 26th day of

October 1988

My Commission Expires: May 25, 1991  
County of Residence: Allen

Notary Public

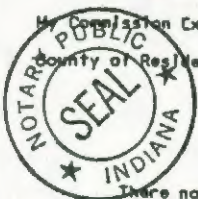
Vickie J. McCrillis  
Notary Public Printed Name

## ACCEPTANCE

There now being sufficient unobligated appropriated funds available, the contracting authority of \_\_\_\_\_ (Governmental Unit) hereby accepts the terms of the attached bid for \_\_\_\_\_ classes or items numbered \_\_\_\_\_ and promises to pay the undersigned bidder upon delivery the price quoted for the materials stipulated in said bid.

**Contracting Authority Members:**

Date: \_\_\_\_\_





Read the first time in full and on motion by Henry, seconded by Burns, and duly adopted, read the second time by title and referred to the Committee on City of Indiana (and the City Plan Commission for recommendation) and Public Hearing to be held after due legal notice, at the Council Conference Room 128, City County Building, Fort Wayne, Indiana, on \_\_\_\_\_, the \_\_\_\_\_, day of \_\_\_\_\_, 19\_\_\_\_, at \_\_\_\_\_ o'clock \_\_\_\_\_ M., E.S.T.

DATED: 11-28-89.

Sandra E. Kennedy  
SANDRA E. KENNEDY, CITY CLERK

Read the third time in full and on motion by Henry, seconded by Long, and duly adopted, placed on its passage. PASSED ~~lost~~ by the following vote:

	AYES	NAYS	ABSTAINED	ABSENT
TOTAL VOTES	<u>9</u>			
BRADBURY	<u>✓</u>			
BURNS	<u>✓</u>			
EDMONDS	<u>✓</u>			
GIAQUINTA	<u>✓</u>			
HENRY	<u>✓</u>			
LONG	<u>✓</u>			
REDD	<u>✓</u>			
SCHMIDT	<u>✓</u>			
TALARICO	<u>✓</u>			

DATED: 12-12-89.

Sandra E. Kennedy  
SANDRA E. KENNEDY, CITY CLERK

Passed and adopted by the Common Council of the City of Fort Wayne, Indiana, as (ANNEXATION) (APPROPRIATION) (GENERAL) (SPECIAL) (ZONING MAP) ORDINANCE RESOLUTION NO. 205-89 on the 12th day of December, 1989.

Sandra E. Kennedy ATTEST  
SANDRA E. KENNEDY, CITY CLERK

SEAL  
Charles S. Reed  
PRESIDING OFFICER

Presented by me to the Mayor of the City of Fort Wayne, Indiana, on the 13th day of December, 1989, at the hour of 11:30 o'clock P. M., E.S.T.

Sandra E. Kennedy  
SANDRA E. KENNEDY, CITY CLERK

Approved and signed by me this 18th day of December, 1989, at the hour of 8:00 o'clock A. M., E.S.T.

Paul Helmke  
PAUL HELMKE, MAYOR



DIGEST SHEET

TITLE OF ORDINANCE: Special

DEPARTMENT REQUESTING ORDINANCE: Purchasing

SYNOPSIS OF ORDINANCE: An ordinance approving the award of Reference No. 887 for batteries for the City Fleet through the CU Garage. The cost reflects the lowest and most responsive vendor.

*J-89-11-30*

EFFECT OF PASSAGE: Used to maintain City Fleet for batteries for 1990.

EFFECT OF NON-PASSAGE: Without the purchase of these materials, downtime of equipment and vehicles would result in lost production and services to the citizens of Fort Wayne.

MONIES INVOLVED: Exide Battery \$17,000.00 +/-

PRICE AGREEMENT: Yes

PURCHASE ORDER:

SOURCE OF FUNDING: CU Garage 702-803-G154-4239

PRIOR APPROVAL:  
(IF APPLICABLE)

DATE:



BILL NO. S-89-11-30

REPORT OF THE COMMITTEE ON CITY UTILITIES

THOMAS C. HENRY, CHAIRMAN  
MARK E. GIAQUINTA, VICE CHAIRMAN  
LONG, BURNS, TALARICO

WE, YOUR COMMITTEE ON CITY UTILITIES TO WHOM WAS

REFERRED AN (ORDINANCE) <sup>XXXXXXXXXX</sup> (RESOLUTION) approving the awarding  
of Reference #887 by the City of Fort Wayne, Indiana, by and  
through its Department of Purchasing and EXIDE CORPORATION for  
the City Utilities Garage

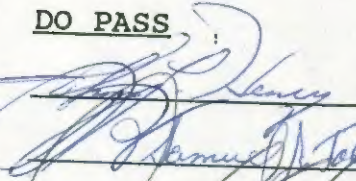
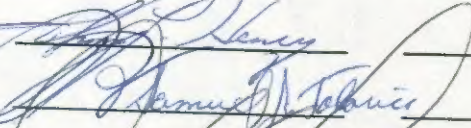
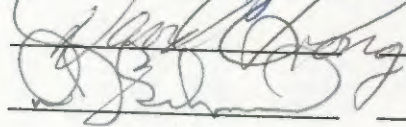
HAVE HAD SAID (ORDINANCE) (RESOLUTION) UNDER CONSIDERATION  
AND BEG LEAVE TO REPORT BACK TO THE COMMON COUNCIL THAT SAID  
(ORDINANCE) (RESOLUTION)

DO PASS

DO NOT PASS

ABSTAIN

NO REC

DATED: 12-12-89

Sandra E. Kennedy  
City Clerk